



Sheet 1 of 9

Form PTO-1449 ModifiedList of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)U.S. Department of Commerce
Patent and Trademark OfficeDocket No.
CRNT-0014Serial No.
09/835,532Applicant
Paul A. KlineFiling Date
April 16, 2001Group
~~2817~~ **2636****U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>✓</i>	1	2,298,435	10/13/42	Tunick	250 455	18 14
<i>✓</i>	2	3,445,814	05/20/69	Spalti	340	151 870.02
<i>✓</i>	3	3,605,009	09/14/71	Enge	323	293
<i>✓</i>	4	3,656,112	04/11/72	Paull	340	151 870.02
<i>✓</i>	5	3,702,460	11/07/72	Blose	340	150 310.02
<i>✓</i>	6	3,810,096	05/07/74	Kabat et al.	340	147R 310.07
<i>✓</i>	7	3,962,547	06/08/76	Pattantyus-Abraham	179 340	25R 310.06
<i>✓</i>	8	3,964,048	06/15/76	Lusk et al.	340	310.03
<i>✓</i>	9	3,973,240	08/03/76	Fong	340	151 310.06
<i>✓</i>	10	4,004,110	01/18/77	Whyte	179 340	170J 310.07
<i>✓</i>	11	4,016,429	04/05/77	Vercellotti et al.	307	149
<i>✓</i>	12	4,057,793	11/08/77	Johnson et al.	340	310.07
<i>✓</i>	13	4,060,735	11/29/77	Pascucci et al.	307	3
<i>✓</i>	14	4,188,619	02/12/80	Perkins	340	310.05
<i>✓</i>	15	4,239,940	12/16/80	Dorfman	179 340	251 310.06
<i>✓</i>	16	4,254,402	03/03/81	Perkins	340	310.07
<i>✓</i>	17	4,323,882	04/06/82	Gajjer	340	310.05
<i>✓</i>	18	4,357,598	11/02/82	Melvin, Jr.	340	310.07
<i>✓</i>	19	4,408,186	10/04/83	Howell	340	310.07
<i>✓</i>	20	4,442,492	04/10/84	Karlsson et al.	364 705	464 412
<i>✓</i>	21	4,457,014	06/26/84	Bloy	381	98
<i>✓</i>	22	4,569,045	02/04/86	Schieble et al.	370	85

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U. S. PATENT DOCUMENTS

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<i>✓</i>	23	4,652,855	03/1987	Weikel	340	310.02
<i>✓</i>	24	4,675,648	06/23/87	Roth et al.	340	310.07
<i>✓</i>	25	4,683,450	07/28/87	Max et al.	333	202
<i>✓</i>	26	4,686,382	08/11/87	Shuey	307	149
<i>✓</i>	27	4,697,166	09/29/87	Warnagiris et al.	340	310.03
<i>✓</i>	28	4,745,391	05/17/88	Gajjar	340	310.07
<i>✓</i>	29	4,746,897	05/24/88	Shuey	340	310.06
<i>✓</i>	30	4,766,414	08/23/88	Shuey	340	310.05
<i>✓</i>	31	4,800,363	01/24/89	Braun et al.	340	310.02
<i>✓</i>	32	4,903,006	02/02/90	Boomgaard	340	310.05
<i>✓</i>	33	4,973,940	11/27/90	Sakai et al.	340	310.02
<i>✓</i>	34	5,148,144	09/15/92	Sutterlin et al.	340	310.01
<i>✓</i>	35	5,185,591	02/09/93	Shuey	340	310.02
<i>✓</i>	36	5,257,006	10/26/93	Graham et al.	340	310.06
<i>✓</i>	37	5,301,208	04/05/94	Rhodes	375	36
<i>✓</i>	38	5,369,356	11/29/94	Kinney et al.	324	142
<i>✓</i>	39	5,406,249	04/11/95	Pettus	340	310.06
<i>✓</i>	40	5,485,040	01/16/96	Sutterlin	307	3
<i>✓</i>	41	5,497,142	03/05/96	Chaffanjon	340	310.06
<i>✓</i>	42	5,498,956	03/12/96	Kinney et al.	324	142
<i>✓</i>	43	5,559,377	09/24/96	Abraham	307	104
<i>✓</i>	44	5,579,221	11/26/96	Mun	364	188

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Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>W</i>	45	5,592,482	01/07/97	Abraham	348	8
<i>W</i>	46	5,616,969	04/01/97	Morava	307	91
<i>W</i>	47	5,684,450	11/04/97	Brown	340	310.02
<i>W</i>	48	5,691,691	11/25/97	Merwin et al.	340	310.02
<i>W</i>	49	5,705,974	01/06/98	Patel et al.	340	310.08
<i>W</i>	50	5,712,614	01/27/98	Patel et al.	340	310.03
<i>W</i>	51	5,726,980	03/10/98	Rickard	370	293
<i>W</i>	52	5,777,545	07/07/98	Patel et al.	341	310.06
<i>W</i>	53	5,796,607	08/18/98	Le Van Suu	364	140.01
<i>W</i>	54	5,805,053	09/08/98	Patel et al.	340	310.01
<i>W</i>	55	5,828,293	10/27/98	Rickard	340	310.04
<i>W</i>	56	5,835,005	11/10/98	Furukawa et al.	340	310.01
<i>W</i>	57	5,856,776	01/05/99	Armstrong et al.	340	310.01
<i>W</i>	58	5,870,016	02/1999	Shresthe	340	310.01
<i>W</i>	59	5,892,430	04/06/99	Wiesman et al.	340	310.01
<i>W</i>	60	5,933,071	08/03/99	Brown	340	310.01
<i>W</i>	61	5,933,073	08/03/99	Shuey	340	310.07
<i>W</i>	62	5,978,371	11/02/99	Mason, Jr. et al.	370	389
<i>W</i>	63	5,982,276	11/09/99	Stewart	340	310.01
<i>W</i>	64	6,023,106	02/08/00	Abraham	307	3
<i>W</i>	65	6,091,932	07/18/00	Langlais	455	5.1
<i>W</i>	66	6,104,707	08/15/00	Abraham	370	295

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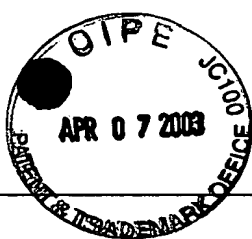
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>m</i>	67	6,140,911	10/2000	Fisher et al.	340	310.01
<i>v</i>	68	6,144,292	11/07/00	Brown	340	310.02
<i>v</i>	69	6,151,330	11/21/00	Liberman	370	449
<i>v</i>	70	6,157,292	12/05/00	Piercy et al.	340	310.01
<i>v</i>	71	6,172,597 B1	01/09/01	Brown	340	310.02
<i>m</i>	72	6,177,849 B1	01/23/01	Barsellotti et al.	333	177
<i>v</i>	73	6,212,658 B1	04/03/01	Le Van Suu	714	749
<i>v</i>	74	6,239,722 B1	05/29/01	Colton et al.	340	870.02
<i>v</i>	75	6,297,730 B1	10/02/01	Dickinson	340	310.01
<i>v</i>	76	6,317,031 B1	11/13/01	Rickard	340	310.03
<i>v</i>	77	6,331,814 B1	12/18/01	Albano et al.	340	310.01
<i>v</i>	78	6,373,376 B1	04/16/02	Adams et al.	340	310.01
<i>v</i>	79	6,396,391 B1	05/02	Binder	340	310.01
<i>v</i>	80	6,396,392 B1	05/28/02	Abraham	340	310.01
<i>v</i>	81	6,404,773 B1	06/11/02	Williams et al.	370	463
<i>v</i>	82	6,407,987 B1	06/18/02	Abraham	370	295
<i>v</i>	83	6,414,578 B1	07/02/02	Jitaru	336	170
<i>v</i>	84	6,425,852 B1	07/30/02	Epstein et al.	600	13
<i>v</i>	85	6,441,723 B1	08/27/02	Mansfield, Jr. et al.	340	310.01
<i>v</i>	86	6,452,482 B1	09/17/02	Cern	340	310.01
<i>v</i>	87	6,480,510 B1	11/02	Binder	370	502
<i>v</i>	88	6,486,747 B1	11/26/02	DeCramer et al.	333	25

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<i>qr</i>	89	6,496,104 B2	12/17/02	Kline	340	310.01
<i>✓</i>	90	6,504,357 B1	01/07/03	Hemminger et al.	340	310.01
<i>✓</i>	91	2001/0038329 A1	11/08/01	Diamanti et al.	340	310.01
<i>✓</i>	92	2001/0038343 A1	11/08/01	Meyer et al.	340	870.02
<i>✓</i>	93	2001/0052843 A1	12/20/01	Wiesman et al.	340	310.01
<i>✓</i>	94	2001/0054953 A1	12/27/01	Kline	340	310.01
<i>✓</i>	95	2002/0010870 A1	01/24/02	Gardner	713	300
<i>✓</i>	96	2002/0014884 A1	02/07/02	Chung	324	74
<i>✓</i>	97	2002/0041228 A1	04/11/02	Zhang	340	310.01
<i>✓</i>	98	2002/0060624 A1	05/23/02	Zhang	340	310.01
<i>✓</i>	99	2002/0071452 A1	06/13/02	Abraham	370	480
<i>✓</i>	100	2002/0080010 A1	06/27/02	Zhang	340	310.06
<i>✓</i>	101	2002/0095662 A1	07/18/02	Ashlock et al.	717	136
<i>✓</i>	102	2002/0098867 A1	07/25/02	Meiksen et al.	455	560
<i>✓</i>	103	2002/0105413 A1	08/08/02	Cern	340	310.01
<i>✓</i>	104	S. N. 10/293,799	11/13/02	Huebner		
<i>✓</i>	105	S.N. 10/292,745	11/12/02	Cope et al.		
<i>✓</i>	106	S.N. 10/292,714	11/12/02	Cope		
<i>✓</i>	107	S.N. 10/315,725	12/10/02	Cope et al.		
<i>✓</i>	108	S.N. 10/319,317	12/13/02	Mollenkopf et al.		
<i>✓</i>	109	Docket No. CRNT-0143	01/21/03	Cope et al.		
<i>✓</i>	110	Docket No. CRNT-0144	03/10/03	Mollenkopf		

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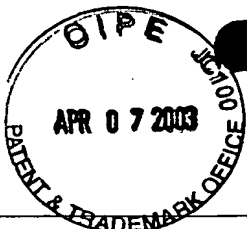


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	Filing Date April 16, 2001	Group 2817 2836

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
<i>W</i>	111	0 470 185 B1	11/29/95	EP		
<i>W</i>	112	0 581 351 A1	02/02/94	EP		
<i>W</i>	113	0 916 194 B1	09/26/01	EP		
<i>W</i>	114	1 011 235 A2	6/21/00	EP		
<i>W</i>	115	1 011 235 A3	05/02/02	EP		
<i>W</i>	116	1 014 640 A2	06/28/00	EP		
<i>W</i>	117	1 014 640 A3	07/03/02	EP		
<i>W</i>	118	1 021 866 B1	10/23/02	EP		
<i>W</i>	119	2 293 950 A	04/10/96	GB		
<i>W</i>	120	2 315 937 A	02/11/98	GB		
<i>W</i>	121	2 331 683 A	05/26/99	GB		
<i>W</i>	122	2 342 264 A	04/05/00	GB		
<i>W</i>	123	2 347 601 A	09/06/00	GB		
<i>W</i>	124	1276933	11/07/89	JP		
<i>W</i>	125	95/29536 A1	11/02/95	WO		
<i>W</i>	126	98/40980 A1	09/17/98	WO		
<i>W</i>	127	00/59076 A1	10/05/00	WO		
<i>W</i>	128	00/60701 A1	10/12/00	WO		
<i>W</i>	129	01/43305 A1	06/14/01	WO	X abstract	
<i>W</i>	130	01/82497 A1	11/01/01	WO		
<i>W</i>	131	02/054605 A1	07/11/02	WO		

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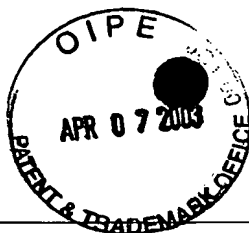


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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	132	Power Line Communications Conference entitled, "PLC, A New Competitor in Broadband Internet Access," December 11-12, 2001 , Washington, D.C., 60 pages
	133	Rivkin, S. R., "Co-Evolution of Electric & Telecommunications Networks," <i>The Electricity Journal</i> , May 1998 , 71-76
	134	Marketing Assessment Presentation entitled "Powerline Telecommunications," The Shpigler Group for CITI PLT, July 16, 2002 , 9 pages
	135	Campbell, C., presentation entitled "Building a Business Case for PLC: Lessons Learned From the Communication Industry Trenches," KPMG Consulting, July 16, 2002 , 5 pages
	136	"Embedded Power Line Carrier Modem," Archnet Electronic Technology, http://www.archnetco.com/english/product/ATL90.htm , 2001 , 3 pages
	137	"Archnet: Automatic Meter Reading System Power Line Carrier Communication", www.archnetco.com/english/product/product_sl.htm , 3 pages
	138	"Power Line Communications Solutions", www.echelon.com/products/oem/transceivers/powerline/default.htm , 2 pages
	139	"Texas Instruments: System Block Diagrams; Power Line Communication (Generic)", http://focus.ti.com/docs/apps/catalog/resources/blockdiagram.jhtml?bdId=638 , 1 page
	140	Feduschak, N.A., "Waiting in the Wings: Is Powerline Technology Ready to Compete with Cable?", March 2001 , www.cabletoday.com/ic2/archives/0301/0301powerline.htm , 5 pages
	141	"Signalling on Low-Voltage Electrical Installations in the Frequency Band 3kHz to 148.5kHz-Part 4: Filters at the Interface of the Indoor and Outdoor Electricity Network", <i>CLC SC 105A (Secretariat)</i> May 1992 , 62, 1-11
	142	"Intellon Corporation Test Summary for Transformerless Coupler Study", <i>Intellon No News Wires</i> , December 24, 1998 , DOT/NHTSA Order No. DTNH22-98-P-07632, pp 1-18
	143	EMETCON Automated Distribution System, ABB Power T & D Company, Inc., January 1990 , Raleigh, North Carolina, No B-919A, 14 pages
	144	"Dedicated Passive Backbone for Power Line Communications", <i>IBM Technical Disclosure Bulletin</i> , July 1997 , 40(7), 183-185
	145	Coaxial Feeder Cables [Engineering Notes]", <i>PYE Telecommunications Limited Publication Ref No. TSP507/1</i> , June 1975 , Cambridge, England, 15 pages

EXAMINER <i>Van Trier</i>	DATE CONSIDERED <i>9/24/03</i>
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>u</i>	146	"Centralized Commercial Building Applications with the Lonworks ® PLT-21 Power Line Transceiver", <i>Lonworks Engineering Bulletin</i> , Echelon, April 1997 , pp 1-22
<i>u</i>	147	"Plexeon Logistics, Inc., "Power Line Communications", www.plexeon.com/power.html , 2 pages
<i>u</i>	148	"EMETCON Automated Distribution System: Communications Guide", <i>Westinghouse ABB Power T & D Company Technical Manual 42-6001A</i> , September 1989 , 55 pages
<i>u</i>	149	Abraham, K.C. et al., "A Novel High-Speed PLC Communication Modem", <i>IEEE Transactions on Power Delivery</i> , 1992 , 7(4), 1760-1768
<i>u</i>	150	J.M. Barstow., "A Carrier Telephone System for Rural Service", <i>AIEE Transactions</i> , 1947 , 66, 301-307
<i>u</i>	151	Chang, S.S.L., "Power-Line Carrier", <i>Fundamentals Handbook of Electrical and Computer Engineering</i> , Volume II-Communication, Control, Devices and Systems , John Wiley & Sons, 617-627
<i>u</i>	152	Chen, Y-F. et al. "Baseband Transceiver Design of a 128-Kbps Power-Line Modem for Household Applications", <i>IEEE Transactions on Power Delivery</i> , 2002 , 17(2), 338-344
<i>u</i>	153	Coakley, N.G. et al., "Real-Time Control of a Servosystem Using the Inverter-Fed Power Lines to Communicate Sensor Feedback", <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46(2), 360-369
<i>u</i>	154	Esmailian, T. et al., "A Discrete Multitone Power Line Communication System", <i>Department of Electrical and Computer Engineering</i> , University of Toronto, Ontario Canada, 2000 IEEE , pp 2953-2956
<i>u</i>	155	Kawamura, A. et al., "Autonomous Decentralized Manufacturing System Using High-speed Network with Inductive Transmission of Data and Power", <i>IEEE</i> , 1996 , 940-945
<i>u</i>	156	Kilbourne, B. "EEI Electric Perspectives: The Final Connection", www.eei.org/ep/editorial/Jul-01/0701conenct.htm , 7 pages
<i>u</i>	157	Kim, W-O., et al., "A Control Network Architecture Based on EIA-709.1 Protocol for Power Line Data Communications", <i>IEEE Transactions on Consumer Electronics</i> , 2002 , 48(3), 650-655
<i>u</i>	158	Lim, C.K. et al., "Development of a Test Bed for High-Speed Power Line Communications", School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, <i>IEEE</i> , 2000 , 451-456

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	Applicant Paul A. Kline	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	159	Lokken, G. et al., "The Proposed Wisconsin electric Power Company Load Management System Using Power Line Carrier Over Distribution Lines", 1976 <i>National Telecommunications Conference, IEEE, 1976, 2.2-12.2-3</i>
	160	Marthe, E. et al., "Indoor Radiated Emission Associated with Power Line Communication Systems", <i>Swiss Federal Institute of Technology Power Systems Laboratory IEEE, 2001, 517-520</i>
	161	Naredo, J.L. et al., "Design of Power Line Carrier Systems on Multitransposed Delta Transmission Lines", <i>IEEE Transactions on Power Delivery, 1991, 6(3), 952-958</i>
	162	Nichols, K., "Build a Pair of Line-Carrier Modems", <i>CRC Electronics-Radio Electronics, 1988, 87-91</i>
	163	Okazaki, H, et al., "A Transmitting, and Receiving Method for CDMA Communications Over Indoor Electrical Power Lines", <i>IEEE, 1998, pp VI-522-VI-528</i>
	164	B. Don Russell, "Communication Alternatives for Distribution Metering and Load Management", <i>IEEE Transactions on Power Apparatus and Systems, 1980, Vol PAS-99(4), pp 1448-1455</i>
	165	Sado, WN. et al., "Personal Communication on Residential Power Lines- Assessment of Channel Parameters", <i>IEEE, 532-537</i>
	166	International Search Report dated June 24, 2002, from PCT/US02/04310
	167	International Search Report dated August 7, 2002, from PCT/US02/04300

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2636**U. S. PATENT DOCUMENTS**

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<i>✓</i>	AA	3,895,370	07/15/75	Valentini	340	310.07
<i>✓</i>	AB	3,942,170	03/02/76	Whyte	340	310.07
<i>✓</i>	AC	4,012,733	03/15/77	Whyte	340	310.05
<i>✓</i>	AD	4,070,572	01/24/78	Summerhayes	398	209
<i>✓</i>	AE	4,142,178	02/27/79	Whyte et al.	340	310.06
<i>✓</i>	AF	4,433,284	02/21/84	Perkins	340	310.05
<i>✓</i>	AG	4,473,816	09/25/84	Perkins	340	310.05
<i>✓</i>	AH	4,473,817	09/25/84	Perkins	340	310.05
<i>✓</i>	AI	4,481,501	11/06/84	Perkins	340	310.07
<i>✓</i>	AJ	4,642,607	02/10/87	Strom et al.	340	310.07
<i>✓</i>	AK	4,644,321	02/17/87	Kennon	340	310.07
<i>✓</i>	AL	4,749,992	06/07/88	Fitzmeyer et al.	340	870.02
<i>✓</i>	AM	5,006,846	04/09/91	Granville et al.	340	870.28
<i>✓</i>	AN	5,191,467	03/02/93	Kapany et al.	359	337

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
<i>✓</i>	AO	WO 01/08321 A1	02/01/01	PCT	X	
<i>✓</i>	AP	EP 0 948 143 A2	10/06/99	EP	X (English abstract only)	

EXAMINER

Van Thien

DATE CONSIDERED

9/24/03

Form PTO-1449 ModifiedDocket No.
CRNT-0014Serial No.
09/835,532List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)Applicant
Paul A. Kline**RECEIVED****JUL 24 2002**U.S. Department of Commerce
Patent and Trademark OfficeFiling Date
April 16, 2001Gro Technology Center 2600
~~2817~~ **2836****U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>W</i>	AQ	5,210,519	05/11/93	Moore	340	310.06
<i>W</i>	AR	5,448,229	09/05/95	Lee, Jr.	340	870.02
<i>W</i>	AS	5,625,863	04/29/97	Abraham	340	310.01
<i>W</i>	AT	5,717,685	02/10/98	Abraham	340	310.01
<i>W</i>	AU	5,770,996	06/23/98	Severson et al.	340	310.08
<i>W</i>	AV	5,778,116	07/07/98	Tomich	385	16
<i>W</i>	AW	5,818,127	10/06/98	Abraham	307	106
<i>W</i>	AX	5,949,327	09/07/99	Brown	340	310.01
<i>W</i>	AY	5,977,650	11/02/99	Rickard et al.	340	310.01
<i>W</i>	AZ	6,014,386	01/11/00	Abraham	340	310.01
<i>W</i>	BA	09/912,633	07/25/01	Kline	_____	_____
<i>W</i>	BB	09/915,459	07/26/01	Kline	_____	_____
EXAMINER <i>Van Trian</i>				DATE CONSIDERED <i>9/24/03</i>		

